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ABSTRACT

Solid waste disposal has become a major concern in rural areas, threatening public health, ruining the environment, and hindering economic development due to an overall poor impression of areas. This bibliography serves as a starting point for small communities to examine the issues and begin planning for feasible programs for disposing or managing solid waste from plastics and paper to motor oil and yard waste. It is designed to keep people apprised of regulation and technology that benefits the planning process. The additional resource section provides information sources for offices to contact, journals and newsletters, and additional significant information needed for decision-makers and others in communities. Bibliographic citations include books, articles, handbooks and manuals, guides, and videotapes. Information resources include journals, newsletters, associations, Environmental Protection Agency (EPA) regional offices, and state environmental offices. Funding resources listed include federal funding programs, private funding sources, and general funding resources. (JRH)

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RICPS, No. 43

Alternatives to Waste Disposal

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INTRODUCTION

The United States produces approximately 180 million tons of solid waste each year. Experts estimate that 70 percent, or 6,000 landfills will be full and close by the year 2000.

One of the many dilemmas presented to rural communities is that of waste disposal. Solid waste disposal has become a major concern in rural areas, threatening public health, ruining the environment, and hindering economic development due to an overall poor impression of areas.

According to the Environmental Protection Agency (EPA), in the United States alone, municipal solid waste by weight is made up of: 40% paper, 18% yard waste, 8% metal, 8% plastic, 7% glass, 7% food waste, and 12% other materials, including rubber tires. In recognition of these facts, communities need to become creative in their methods of disposing or managing solid waste from plastics and paper to motor oil and yard waste.

Where and how to begin is an issue for all communities, especially rural communities with limited resources. This bibliography serves as a starting point for small communities to examine the issues and begin planning for feasible programs. Keeping apprised of regulation and new technology benefits the planning process. The additional resource section provides information sources for offices to contact, journals and newsletters and additional significant information needed for decision-makers and others in communities.

BIBLIOGRAPHIC CITATIONS

Books

This list is a sampling of the great variety of books available about alternative methods of solid waste disposal. Some are specialty books about different aspects of solid waste disposal: recycling, composting, specific recyclable materials, hazardous waste disposal, collection methods, or waste disposal methods. Books also are written for different audiences, such as, municipal officials, individuals or groups concerned about the environment, researchers, educators, or children.

1
Arizona Rural Recycling Conference Proceedings, October 14-16, 1990, Prescott, Arizona. Flagstaff, AZ: Cocopai Resource Conservation & Development Area, 1990. 60 p. NAL Call No.: TD794.5.A75 1990.

Discusses refuse recycling in rural Arizona and analyzes it in detail.

2
Beyond 40 Percent, Record-Setting Recycling and Composting Programs. Brenda Platt. Washington, D.C., Island Press, 1991. 136 p. NAL Call No. TD794.5.B48 1991b.

Presents data and case studies on the operating experience of 17 U.S. communities. All are recovering more than 30 percent of their waste, and 14 have rates above 40 percent. The case studies are particularly useful for elected community leaders or administrators who make decisions about solid waste management.

3
Composting of Poultry Litter, Leaves, and Newspaper. Cayane Greshan, Rhonda Janke, Jeffrey Moyer. Kutztown, PA: Rural Urban Office, Rodale Research Center, Rodale Institute, 1990, 35 p. NAL Call No.: TD796.5.G74 1990.

This how-to pamphlet discusses the various aspects and steps in composting three common solid waste products on the farm: poultry litter, leaves, and newspapers.

4
Feasibility of On-Farm Composting. Daniel Dreyfus. Kutztown, PA: Rural Urban Office, Rodale Research Center, Rodale Institute, 1990, 31 p. NAL Call No.: TD796.5.D74 1990.

This discussion of using farm manures as a resource for on-farm composting reaches these conclusions: on-farm composting is compatible with other farm operations, it is income-generating for farmers, and it is a disposal option for some agricultural and municipal waste.

5
The Frugal Gardener: More than 200 Ways to Save Resources and Money by Recycling in Your Garden. Bobbi Mc Rae. Austin, TX: Fiberworks Publications, 1992, 94 p. NAL Call No.: SB454.3 .R43M47 1992.

A how-to book that helps home gardeners save money while also saving the environment. Discussed are how to re-use and recycle common household waste materials.

6
Household Hazardous Waste: Steps to Safe Management. Communications Services Branch, Office of Solid Waste. Washington, DC: U.S. Environmental Protection Agency, U.S. Government Printing Office, 1993, 8 p.

This booklet gives clear definitions and explanations of hazardous waste, the dangers of improper disposal, safe management methods, collection days, and ways to reduce and recycle.

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Listed are useful publications, available at no charge by calling the EPA hotline (800- 553-7672).

7
Household Waste Management. Storrs, CT: Cooperative Extension System, University of Connecticut, College of Agriculture and National Resources, 1990, 26 p. NAL Call No.: TD794.5 H68.

This booklet provides an overview household waste management with specific how-to instructions for building home recycling and compost centers, making a newspaper baler, making a glass crusher, recycling used motor oil, and groundwater strategies.

8
In-Depth Studies of Recycling and Composting Programs: Design, Costs, Results. Brenda J. Platt. Washington, D.C.: Institute for Local Self-Reliance, 1992. NAL Call No.: TD794.5.I518 1992.

This book is designed to help local communities understand the nitty-gritty aspects of composting and recycling.

9
Lending a Helping Hand: The EPA/GRCDA/NRC Peer Match Program. Silver Spring, MD: Environmental Protection Agency, Governmental Refuse Collection and Disposal Association, and National Recycling Coalition, (1994), 10 p.

The "peer matching program" was established by the Environmental Protection Agency, the Governmental Refuse Collection and Disposal Association, and the National Recycling Coalition to help states and communities find solutions to their waste management problems. The program matches experts and government officials with municipalities that need help with their solid waste issues.

10
Let's Reduce and Recycle, Curriculum for Solid Waste Awareness: Lesson Plans for Grades K-6 and 7-12. Washington, DC: U.S. Environmental Protection Agency, 1990. 144 p.

This book is designed to teach children about solid waste -- where it comes from and how to manage it. Activities focus on solid waste awareness, but provide skill development in creative writing, mathematics, science, and vocabulary.

11
Overview: Solid Waste Disposal Alternatives: An Integrated Approach for American Communities. Keep America Beautiful, Inc. Stamford, CT: Keep America Beautiful, Inc., 1990, 26 p. NAL Call No.: TD791.O93 1990.

Because there is not an easy solution for 'garbage' or solid waste, this booklet explores an integrated approach, incorporating many alternatives. Discussed are: considerations for source reduction, recycling, composting, waste into energy, and sanitary landfill alternatives.

12
Packaging for the Environment, a Partnership for Progress. E. Joseph Stilwell. New York: AMACOM, American Management Association, 1991. 262 p. NAL Call No.: TD195.P26P33 1991.

'Packaging' is usually the largest single component of municipal solid waste. This book delves into prospects for solutions. Topics include: key players in environmental arena, the packaging industry, materials, infrastructure, case studies, conclusions, and strategies.

13
Recycling Equipment and Technology for Municipal Solid Waste. Joseph T. Swartzbaugh. Park Ridge, NJ: Noyes Data Corporation, 1993, 150 p. NAL Call No.: TD794.5.R4315 1993.

Equipment and methods for separation and handling of municipal solid waste at material recovery facilities are the focus of this book.

14
Recycling Solid Waste: : The First Choice for

Private and Public Sector Management. Thomas E. Duston. Westport, CT; Quorum Books, 1993, 200 p.

Written to promote integrated waste management, specifically recycling, all facets are covered from planning to implementation and evaluation. The author shows how recycling can be often be the least costly method of dealing with the majority of solid waste.

15
Recycling Works! State and Local Solutions to Solid Waste Management Problems. Washington, DC: US Environmental Protection Agency, Office of Solid Waste, 1991, 52 p.

This booklet describes 14 successful state and local programs. "Sauk County, Wisconsin," pp. 35-36, has a private, nonprofit, regional recycling program operated totally by volunteers. "Wilton, New Hampshire," pp. 47-49, makes recycling easier at their mandatory, material separation at drop-off center by distributing a list of materials and a how-to prepare materials information sheet for drop-off. Includes an information sheet.

16
Rural America: The Solid Waste Issue Hits Home. Daniel Schaffer and James Malia. Knoxville, TN: The Center for Rural Waste Management, 1994, 32 p.

This booklet discusses rural solid waste problems and describes how several communities have solved their problem.

17
Southwest Rural Recycling Conference Proceedings, October 9, 10, 11, 1991 Flagstaff Arizona. Southwestern Rural Recycling Conference. Flagstaff, AZ: Clean & Green Committee, Cocopai Resource Conservation & Development Area, Inc., 1991, 114 p. NAL Call No.: TD794.5.S68 1991

The recycling of refuse in rural Arizona is the focus of this publication.

18
Summary of Markets for Recovered Aluminum. Office of Solid Waste. Washington, DC: U.S. Environmental Protection Agency, 1993, 8 p.

This booklet provides clear definitions and explanations of the role of markets in recycling aluminum including: scrap aluminum supply, factors, trends, and demands.

19
World Environment Directory. 6th ed. Business Publishers, Inc. Silver Spring, MD: Business Publishers, Inc., 1991, 200 p.

This environmental directories has it all: the names, addresses, and phone numbers of federal agencies, independent agencies, state government agencies, corporate officials, universities and educational institutions, international organizations, and product manufacturers.

Rural Information Center Publication Series

Articles

These articles are from popular and scholarly periodicals that have occasional articles about alternatives for solid waste disposal or from ones that are entirely about waste management. The full text of some of these articles is available through online databases. It is important to consult the current *Ulrich's International Periodical Directory* or the *Standard Periodical Directory* for any changes in title, publisher, format, or content of these magazines. These directories may also list other magazines or journals of interest.

1
"Biomass as an Energy Source for the Midwestern U.S.." D.R. Kenney, T.H. DeLuca. *American Journal of Alternative Agriculture*, Vol. 7(3), 1992, pp. 137-144. NAL Call No.: S605.5.A43.

This article recognizes the feasibility benefits of Ethanol, produced from corn, as a viable fuel source produced in the Midwest.

2
"Building Support for Composting in Agriculture." Richard M. Kashmanian. *Biocycle: Journal of Waste Management*, Vol. 35(12), December 1994, pp. 67-70.

Discusses the involvement of Federal and state agencies, universities and the private sector in recognizing the importance of agricultural composting in residual management and pollution prevention.

3
"Call It Trash, Garbage, or Refuse: Four Case Studies Illustrate Community Waste Management Options." J. W. Kazzo. *Small Town*, Vol. 21(3), November/December 1990, pp. 12-19. NAL Call No.: HT101.S52.

These case studies illustrate how communities can recycle trash into reusable, nutrient rich mulch.

4
"City-Wide Recycling in Manassas, Virginia: Local Government and Citizens Work Together." J. Cartwright, B. Adams, and M. Cerutti. *Small Town*, Vol. 21(5), March/April 1991, pp. 23-27. NAL Call No.: HT101.S52.

Citizens and the local government cooperate to ensure that their community's recycling program is successful.

5
"Clinton Urged to See Rural Needs." *Successful Farming - Iowa Edition*, Vol. 91(5), Mid-March 1993, pp. SS2-SS3.

A 1993 study identifies solid waste management as one of the top three needs of rural America.

6
"The Compost Pile Meets the 1990s." Todd Paddock. *Pathways to Outdoor Communications*, Vol. 1(1), Fall 1991, pp. 8-9.

Composting is discussed as a valuable alternative to depositing waste materials in a landfill. As much as two-thirds of garbage can be composted, and the process has become more cost effective. Challenges to composting are producing a compost product that will sell and dealing with the odor created by the process.

7
"Composting: Great Rotten Idea." *Chemecology*, Vol. 20(9), January 1992, pp. 10-11.

To help students investigate the advantages and disadvantages of composting, various activities are presented. Definitions and applications of recyclable and biodegradable are included.

8
"Composting Rural Landfill Wastes." D. Riggle. *Biocycle: Journal of Waste Management*, Vol. 32(10), October 1991, pp. 62, 65. NAL Call No.: 57.8 C734.

This article focuses on a pilot project that examined a low tech, low capital method for composting lumber and other woody wastes with a range of locally available nitrogen sources.

9
"Constructing Equipment from Recycled Materials." Rip Marston. *Journal of Physical Education, Recreation & Dance*, Vol. 65(8), October 1994, pp. 44-47.

Creating 'improvised' equipment is not only cost-effective but is a practical way of helping children learn to become more sensitive and responsible to environmental concerns. Constructing low-cost, improvised equipment for a wide range of youth activities from recycled materials is discussed."

10
"Coordinated Organics Reduction." *Biocycle: Journal of Waste Recycling*, Vol. 35(2), February 1994, p. 24. NAL Call No.: 57.8 C734.

This case study explores affordable practical organic waste reduction techniques for small to mid-sized communities.

11
"Creating Markets Close to Home." David Riggle. *Biocycle: Journal of Waste Recycling*, Vol. 35(7), July 1994, pp. 78-82. NAL Call No.: 57.8 C734.

A northern California town created resources from wastes by viewing recyclables as commodities, and they turn geographic isolation to their advantage.

12
"Does Source Reduction Work?" David Allway. *Resource Recycling*, Vol. 11(7), July 1992, pp. 52-61. NAL Call No.: TD794.5.R458.

Suggests that quantification is essential to establish the cost-effectiveness of source reduction (SR). Presents case studies of monitoring methods for seven different SR efforts.

13
"Don't Call It Garbage." Peter Carlson. *The Washington Post Magazine*, January 23, 1994, pp. 8-13, 20-24.

The correct term for this $30 billion industry is 'municipal solid waste.' This article describes 'garbage' from collection to processing, disposal, recycling, landfill alternatives, the decision makers, the garbagemen who collect it, and its place as a cultural resource in history and as studied by archaeologists.

14
"An Economic Analysis of Solid Waste Management Alternatives for Rural Sequoyah County." C.W. Allen, G.A. Doeken, C.E. Henderson, J.A. Yates, F. Rood. *Agricultural Extension*, January 1991, 69 p. NAL Call No.: HD1775.O503.

This economic analysis considers three solid waste alternatives for a rural county in Oklahoma serving nearly 16,000 in population. Both the state extension service and the Oklahoma State Department of Health assisted in preparation of the report.

15
"Economic Development and Effective Resource Utilization: The Case of the Sterling Tire-to-Energy Project." T. Wright. *Economic Development Review*, Vol. 10(3), Summer 1992, pp. 77-79. NAL Call No.: HC106.8.E25.

This case study of Sterling, Connecticut examines how the community started a tire-to-energy facility that generates stem, which, in turn, they sell to the power company for use.

16
"French Fashion Bottles it All Up." Tara Patel. *New Scientist*, Vol. 144(1947), October 15, 1994, p. 26. NAL Call No.: 472-N42.

Sweaters made of 30 percent wool and 70 percent recycled polyvinyl chloride (PVC) will go on sale in France by the end of the month. The PVS is recycled from plastic mineral water bottles.

17
"Green Polystyrene?" Steve Lustgarden. *Vegetarian Times*, Issue 206, October 1994, p. 17.

Conflicting views on what is ecologically better--the use of disposable polystyrene foam cups or ceramic mugs--are discussed a chemistry professor and a staff member at Boston's Recycling Campaign.

18
"Improving Recycling Through Market Forces." Russ Martin. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), October 1994, pp. 75-77. NAL Call No.: 57.8 C734.

To create a demand for recovered materials, Florida created an advance disposal fee (ADF) that charges a one penny per container fee on certain cans, bottles, and jars. The competitive advantage is given to companies that meet recycling or recycled content goals.

19
"Improving Turf with Compost." eter Landschoot and Andy McNitt. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), October 1994, pp. 54-57. NAL Call No.: 57.8 C734.

A preliminary test on the effects of compost applied to turf found that compost is more effective than fertilizer and has few negative effects. More testing is needed to establish the long-term response of turf to applied compost.

20
"Information Sources on Rural Recycling." *Green Library Journal*, Vol. 1(1), 1992, pp. 29-37.

With the goal of encouraging recycling as an integral part of solid waste management for individuals and communities, resources for rural recycling operations are provided. Rural government officials, planners, residents, and educators should find this article useful. Forty-nine resources range from bibliographies to directories and case studies.

21
"Landfill Reclamation Strategies." Peter Landschoot and Andy McNitt. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), October 1994, p. 40-44. NAL Call No.: 57.8 C734.

Landfill reclamation is examined by looking at current landfill mining projects in Collier County, Florida; Edinburg, New York; and Lancaster County, Pennsylvania. Better than capping old landfills, landfill reclamation minimizes long-term expense and expands the amount of reusable land.

22
"Market Incentives to Encourage Household Waste Recycling: Paying for What You Throw Away." James Reschovsky and Sarah Stone. *Journal of Policy Analysis & Management*, Vol. 13(1), Winter 1994, pp. 120-139.

The use of market incentives to encourage household waste reduction by pricing waste-disposal services according to the quantity of waste generated was investigated. A natural experiment from a New York county was used.

23
"Marketing Compost to Commercial Agriculture." Gerard d'Aquin. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), pp. 82-83. NAL Call No.: 57.8 C734.

Suggestions are offered to help market compost to commercial agriculture. Suggestions include making fertilization dealers more involved in marketing compost, maximizing product economics by preserving plant nutrients, and combining the attributes of waste streams.

24
"Mired in Tires." Mariette DiChristina. *Popular Science*, Vol. 245(4), October 1994, pp. 62-62.

The billions of used automobile tires that have accumulated will take centuries to degrade. New recycling technologies from Titan Technologies and others may turn mountains of old rubber into new and useful materials.

25
"New Horizons for Commercial Vermiculture." David Riggle and Hannah Holmes. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), October 1994, pp. 58-62. NAL Call No.: 57.8 C734.

Commercial vermiculture, the utilization of the natural composting process that occurs when raising worms, is examined. The worm castings have a relatively low odor and enhanced microbial activity. A listing of worm resources is given.

26
"New Life for Retired Tires." *Environmental Action*, Vol. 25(4), Winter 1994, pp. 37-38.

Section 1038 of the Intermodal Surface Transportation Act (ISTEA) requires that starting in 1994, five percent of roads built with Federal funds use a pavement made with recycled tires. Studies show that roads using the crumb rubber last longer.

27
"Not in Whose Backyard? The Ethics of Reporting Environmental Issues." *Mass Communications Review*, Vol. 20(1-2), 1993, pp. 62-75.

Four case studies from Georgia illustrate the ethical problems that journalists working in rural areas face when reporting about waste disposal and treatment proposals.

28
"Other People's Garbage." Elizabeth Royte. *Harper's*, Vol. 284(1705), June 1992, pp. 54-60.

This article discusses the efforts to open a landfill in acutely financially distressed rural McDowell County, West Virginia.

29
"On-Farm Composting of Municipal Organics." *Biocycle: Journal of Waste Recycling*, Vol. 33(7), July 1992, pp. 50-51. NAL Call No.: 57.8 C734.

This article identifies key strategies for farmers, municipal officials, and recycling coordinators to use to build a successful rural/urban partnership for composting municipal organics.

30
"Poultry Industry Finds Added Value in Composting." Richard M. Kashmanian. *Biocycle: Journal of Waste Recycling*, Vol. 36(1), January 1995, pp. 55-57. NAL Call No.: 57.8 C734.

Thousands of poultry farms in the top 25 poultry producing states compost poultry waste and the trend is projected to increase in the future.

31
"Recycled Household Paints." George Stubbs. *Biocycle: Journal of Waste Recycling*, Vol. 35(10), October 1994, pp. 71-74. NAL Call No.: 57.8 C734.

Green Paint Company in Manchaug, Massachusetts markets an oil-based recycled paint and a latex-based recycled paint. Green Paint's reprocessing of recycled paints in discussed and the company's paint collection efforts in Melrose, Massachusetts are detailed.

32
"Recycling." Noel Grove. *National Geographic*, Vol. 186(1), July 1994, pp. 92-115.

This article discusses new ideas and uses for recycled materials.

33
"Regional Coordination for Processing of Recyclables from Rural Areas: A Case Study of the First Tennessee Development District." W. M. Park, J.D. Holt, and R. Roberts. *SRDC Series--Southern Rural Development Series*, April 1993, pp. 33-49, 51-52. NAL Call No.: HT401.S72.

This article provides an overview of the key aspects of integrated multi-county recycling systems in a rural-urban area of Tennessee. The article includes current characteristics of the process for each county, level of citizen participation, estimated costs associated with recycling systems, and an analysis of the "tradeoffs" for each county.

34
"Rural Community Convenience Centers." K. Goodwin, G. Sloggett, G. Doeksen, and J. Fitzgibbon. *OSU Extension Facts*, No. 894. Stillwater, OK: Cooperative Extension Service, Division of Agriculture, Oklahoma State University, August 1993. 4 p. NAL Call No.: S544.3.0505.

This extension article outlines "convenience centers" designed to provide residents a place to bring materials to be recycled. It discusses costs and operation of such centers.

35
"Rural Community Solid Waste Recycling Systems." K. Goodwin, G. Sloggett, G. Doeksen, and J. Fitzgibbon. *OSU Extension Facts*, No. 888. Stillwater, OK: Cooperative Extension Service, Division of Agriculture, Oklahoma State University, November 1992. 4 p. NAL Call No.: S544.3.0505.

This extension article discusses the basics of setting up community recycling programs. With the prediction that 70% of all landfills will be forced to close by the year 2000, communities may find it necessary to establish such programs.

36
"Rural Community Yard Waste Composting Systems." K. Goodwin, G. Sloggett, G. Doeksen, and J. Fitzgibbon. *OSU Extension Facts*, No. 887. Stillwater, OK: Cooperative Extension Service, Division of Agriculture, Oklahoma State University, November 1992. 4 p. NAL Call No.: S544.3.0505.

The focus of this extension article is on yard waste composting. It discusses collection and composting alternatives, establishing a site, planning and feasibility and marketing the compost.

37
"Rural Recycling: Going the Distance." Robert Steuteville. *Biocycle: Journal of Waste Recycling*, Vol. 35(2), February 1994, pp. 58-61. NAL Call No.: 57.8 C734.

Presents recycling success stories and reasonably priced waste diversion programs for both curbside and dropoff systems in rural areas.

38
"Solid Waste Management and Recycling in Northeast Oklahoma." C.E. Henderson. *SRDC--Southern Rural Development Center*, September 1990, pp. 19-23. NAL Call No.: HT401.S72.

In 1988, a group of citizens and local officials in Northeastern Oklahoma found a long-term solution for the growing serious waste problem in the 16 county region. The group formed a non-profit corporation, studied the problem with the help of an EPA grant, and began to find and implement soulutions.

39
"Source Separation and Composting of Organic Municipal Solid Waste." Mark Gould and Others. *Resource Recycling*, Vol. 11(7), July 1992, pp. 36-45. NAL Call No.: TD794.R458.

Describes a variety of composting techniques that may be utilized in a municipal solid waste management program. Ways that composting system designers can determine the amount and type of organics in the waste stream, evaluate separation approaches, and assess collection techniques are discussed. Outlines advantages of mixed waste composting and wet/dry source separation systems.

40
"Source Separation Pilot Set for Rural Community." *Biocycle: Journal of Waste Recycling*, Vol. 35(1), January 1994, p. 11. NAL Call No.: 57.8 C734.

A pilot program of 2100 households in Pittstown, New York gathered data for the 50-ton a day solid waste composting facility they were planning.

41
"Standards and Guidelines for Compost Use." Ronald A. Alexander. *Biocycle: Journal of Waste Recycling*, Vol. 35(12), December 1994, pp. 37-40.

Discusses a partnership between the State of Florida and The Composting Council that sets up guidelines to improve matching product and end use.

42
"Strike It Rich with Classroom Compost." Linda L. Cronin Jones. *American Biology Teacher*, Vol. 54(7), October 1992, pp. 420-24. NAL Call No.: QH301.A7.

Discusses composting of organic materials as an alternative to landfills. Lists uses of composts and describes details of a simple composting activity for high school students. Includes an information sheet for students and a student data sheet. Suggests other composting activities.

43
"Supported Employment in a Rural Environment: Riverview Recycling." Carolyn Tice. *Human Services in the Rural Environment*, Vol. 16(1), Summer 1992, pp. 11-14. NAL Call No.: HV85.85.

This article gives an overview of supported-employment programs for disabled individuals in rural areas. Describes a successful program in rural southeastern Ohio that employees 89 developmentally disabled persons in a countywide recycling program. Discusses methods for developing supported-employment programs in rural areas.

44
"Take the Recycled Office Furniture Market Seriously." Marilyn Zelinsky. *Interiors: For the Contract Design Professional*, Vol. 153(10), October 1994, p. 22.

The 21.3 million small businesses in the U.S. are prime candidates for using recycled office furniture. The recycled office furniture market has grown in to an $800 million business.

45
"Taking the Innovative Approach to Waste Hauling." Robert Steuteville. *Biocycle: Journal of Waste Recycling*, Vol. 34(7), July 1993, pp. 38-39. NAL Call No.: 57.8 C734.

This article describes the practical and convenient advantages of a tag-based fee system for handling waste disposal over the bag system in a free market, small town environment.

46
"Trends in Curbside Recycling." Robert Steuteville, jay Freeborne, and Fulton Rockwell. *Biocycle: Journal of Waste Recycling*, Vol. 35(7), July 1994, pp. 30-35, 72, 74-75. NAL Call No.: 57.8 C734.

This article reports the results of a *Biocycle* survey of the collection methods, vehicles, bins, costs, and materials in a dozen curbside programs.

47
"The Use of Recycled Materials in Highway Construction." Robin Schroeder. *Public Roads*, Vol. 58(2), Autumn 1994, pp. 32-41.

The amount and type of waste being generated grows as the world population increases. Some waste materials show promise as substitutes for conventional building materials including innovative highway industry uses for waste materials and byproducts.

48
"Vericomposting in a Rural Community." George D. Harris, Weldon L. Platt, and Benton C. Price. *Biocycle: Journal of Waste Recycling*, Vol. 31(1), January 1990, pp. 48-51. NAL Call No.: 57.8 C734.

Examines a Southern California project providing comparative data on static pile and earthworm composting for sludge.

49
"Versatile MRF Serves Rural County. *Biocycle: Journal of Waste Recycling*, Vol. 33(7), July 1992, pp. 46-47. NAL Call No.: 57.8 C734.

Discusses how the acceptance of Huron County, Ohio's material recovery facility is considered a good sign for recycling everywhere since the area is conservative and cautious.

50
"What Happens ... to All That Stuff?" Kenneth Bigham. *Current Health*, Vol. 153(10), October 1994, pp. 21-23.

The recycling procedures for various kinds of materials are described, as are the benefits to the environment that come from recycling. Continued recycling means energy savings, more jobs, and a safer environment.

51
"When Trash Rolls Into Town." Jim Patrice. *Farm Journal (Midwest Edition)*, Vol. 115(4), December 1991, p. G8.

Midwestern rural areas have much lower dumping fees than the urban Eastern U.S. Waste management companies are discovering a potential for profit in shipping the waste to these areas.

52
"Why Farmers Become Composters." David Riggle. *Biocycle: Journal of Waste Recycling*, Vol. 35(11), November 1994, pp. 58-62.

Discusses how farmers fit composting into their operations: nutrient management, better materials handling, added income and improve soil qualities.

Handbooks and Manuals

1
The Consumer's Handbook for Reducing Solid Waste. Washington, DC: U.S. Environmental Protection Agency, Solid Waste and Emergency Response, 1992. 40p.

This illustrated and informally written booklet describes how people can help solve a growing problem garbage. Twelve recycling tips are presented.

2
Handbook, Materials Recovery Facilities for Municipal Solid Waste. PEER Consultants. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, 1991, 160 p.

Designed to be of assistance to solid waste planners and engineers at the local community level, this handbook explains what can be achieved economically and technically.

3
The McGraw-Hill Recycling Handbook. Herbert Lund, ed. New York: McGraw-Hill, 1993, 1 Vol., (200 p.)

This in-depth, comprehensive handbook covers all aspects of recycling. Chapters include: an overview, legislative evaluations, waste streams, setting goals and priorities, separation and collection systems, processing facilities, marketing development, public awareness programs, recyclable materials, household hazardous wastes, drop-off and transfer stations, planning and implementation, training information sources.

4
The Recycler's Handbook. The Earth Works Group. Berkeley, CA: Earth Works Press, 1990, 132 p.

This basic handbook provides clear, simple descriptions of the recycling process from recycling basics to getting started, recyclable materials, and resources.

5
The Recycler's Manual for Business, Government, and the Environmental Community. David Powelson and Melinda Powelson. New York: Van Nostrand Reinhold, 1992. 512 p. NAL Call No.: TD794.5.P68 1992.

This in-depth, comprehensive manual covers all aspects of recycling community, factory, and trade waste. Administrative agencies, references, a bibliography, and index are included.

6
School Recycling Programs, a Handbook for Educators. Washington, DC: U.S. Environmental Protection Agency, Solid Waste and Emergency Response, 1991. 24 p.

This is a how-to manual for starting a school recycling program.

Guides

1
Backyard and Balcony Composting: The Complete Guide. Mark Cullen and Lorraine Johnson. Melbourne, Victoria, Australia: Bookman Press, 1992, 165 p. NAL Call No.: TD796.5 C85 1992.

This is a guide to all aspects of composting from beginning to methods, troubleshooting, a glossary, and sources for supplies.

2
The Biocycle Guide to the Art & Science of Composting. Staff of *Biocycle: Journal of Waste Recycling* eds. Emmaus, PA: J.G. Press, 1991, 270 p.

All you ever need to know about composting from 'the garbage' start to the marketing of a clean, usable compost. Topics include: understanding the process, composting methods and operations, methods for municipal solid waste, financing and evaluation, case studies in composting and end product utilization, marketing based on quality, managing odors at the composting facility, public health issues, and beneficial uses.

3
Decisionmaker's Guide to Recycling Plastics. Prepared for the Oregon Department of Environmental Quality, Solid Waste Reduction and Recycling Section, and US Environmental Protection Agency, Region X, Solid Waste Program. Portland, OR: The Program, 1991, 36 p.

This guide reviews all phases of recycling plastics from the decision to recycle through what plastics are recycled, collecting, markets, and how-to estimate recovery levels.

4
Decision Maker's Guide to Solid Waste Management. Office of Solid Waste. Washington, DC: Environmental Protection Agency, 1989.

This guide is designed to help communities understand the choices available for solid waste management, including the benefits, limitations, and costs involved in each choice. This guide provides assistance in starting and operating a sound integrated waste management system for the community.

5
Ecopreneuring: The Complete Guide to Small Business Opportunities from the Environmental Revolution. Steven Bennett. New York: Wiley, 1991. 308 p. NAL Call No.: HD62.5.B455 1991.

This book describes how to start businesses in the "green" business by solving environmental problems and making money at the same time. Even old businesses can take on new processing or production to help the environment.

6
Market-Based Planning and Implementation Guide for Local Recycling Programs. Michael Alexander. Lexington, KY: Council of State Governments, 1993, 44 p.

This booklet discusses the planning and operating of local recycling programs based on the demands of the materials' market. Topics include: waste analysis, program design, and identifying, securing, and developing the market.

7
Recycling Sourcebook: A Guide to Recyclable Materials, Case Studies, Organizations, Agencies, and Publications. Thomas J Cichonski and Karen Hill, eds. Detroit, MI: Gale, 1993, 563 p. NAL Call No.: TD794.5.R443 1993

This sourcebook contains a wealth of material, including: current trends and practices, recycling material, recycling in the community, and recycling organizations, agencies, and publications. The case studies, especially "Beyond the Bright Lights: Six Rural Recycling Programs" by Tom Watson on pp. 135-138, and "Rural County Recycling Challenge" by Ken Perkins and Bev Shane on pp. 127-133, are particularly useful to rural communities.

8
A Solid Waste Resource Guide for Native Americans: Where to Find Funding and Technical Assistance. Washington, DC: U.S. Environmental Protection Agency, 1992, 14 p.

This microfiche, distributed to U.S. Depository Libraries, provides information about refuse and refuse disposal on Indian reservations.

Videotapes

1
Life After the Curb: Recycling Processes. Cornell Waste Management Institute and Cornell Cooperative Extension. 1992. 20 minutes. NAL Call No.: Videocassette No. 1456

Live and animated presentations illustrate various ways to recycle waste products and emphasize the 3-fold theme: reduce, reuse, recycle.

2
Overview Solid Waste Disposal Alternatives An Integrated Approach for American Communities. Keep America Beautiful, Inc. Stamford, CT: Keep America Beautiful, Inc., 1990, 33 minutes. NAL Call No.: Videocassette No. 1421.

This videotape helps communities understand various alternatives and uses for solid waste.

INFORMATION RESOURCES

Journals

These journals and newsletters are listed to illustrate the variety available. Check with a library for other journals and publications of interest.

Biocycle: Journal of Waste Recycling
J.G. Press
Box 351
18 South 17th St.
Emmaus, PA 18409
(215) 967-4135

Environmental Decisions:
Waste Management, Water Treatment and Quality
News for Local Government Leaders
National League of Cities Institute
1301 Pennsylvania Ave.
Washington, DC 20004
(202) 626-3030

Garbage
435 Ninth St.
Brooklyn, NY 11215
(718) 788-1700

Municipal Solid Waste
The Solid Waste Association of North America
Box 7219
Silver Spring, MD 20910
(301) 585-2898

Out of the Dumps
Association of Vermont Recyclers
Box 1244
Montpelier, VT 05601

Pulp & Paper
Miller-Freeman Publications
500 Howard St.
San Francisco, CA 94105
(415) 397-1881 or (415) 543-0256

Recycling Today
4201 Bridge Ave.
Cleveland, OH 44113
(800) 456-0707

Resource Recycling
Box 10540
Portland, OR 97210
(503) 227-1319

Reusuable News
U.S. Environmental Protection Agency
401 M St. NW, Rm. OS-305
Washington, DC 20460

Scrap Processing and Recycling
1325 G St., NW, Suite 1000
Washington, DC 20002
(202) 466-4050

Vision
Keep America Beautiful, Inc.
Mill River Plaza
9 W. Broad St.
Stamford, CT 06902
(203) 323-8987

Waste Age
National Solid Waste Management Association
1730 Rhode Island Ave., Suite 1000
Washington, DC 20036
(202) 861-0708

Wastelines
Environmental Action Foundation
1525 New Hampshire Ave., NW
Washington, DC 20036
(202) 745-4879

Newsletters

Composting News
13737 Holland Rd.
Cleveland, OH 44142
(216) 362-7979

Fiber Market News
4012 Bridge Avenue
Cleveland, OH 44113
(800) 456-0707

Green Market Alert
345 Wood Creek Rd.
Bethlehem, CT 06751
(203) 266-7026

Green Pages
Yellow Pages Publishers Assoc.
340 E. Big Beaver Rd., 5th Fl.
Troy, MI 48083
(313) 680-8880

Official Board Markets
233 N. Michigan Ave., 24th Fl.
Chicago, Il 60601
(312) 938-2300

Plastic News
Crain Communications
1725 Merriman Rd.
Akron, OH 44313-1725
(216) 836-9180

Plastics Recycling Update
Resource Recycling, Inc.
P.O.Box 10540
Portland, OR 97210
(503) 227-1319

Recycling Markets
Mill Trade Journal
43 Main Street
Avon-By-The-Sea, NJ
(908) 502-0500

Recycling Times
1730 Rhode Island Ave, NW, Suite 1000
Washington, DC 20036
(202) 861-0708

Recycling Manager
707 Union St.
Brooklyn, NY 11215
(718) 398-3485

Regeneration Newsletter
Regeneration Project
Rodale Press
Emmaus, PA

Resource Recovery Report
5313 38th St., NW
Washington, DC 20015
(202) 672-6034

Scrap Tire News
Recycling Research Institute
133 Mountain Rd.
Suffield, CT 06078
(203) 668-5422

State Recycling Laws Update
Raymond Communications
6429 Auburn Ave.
Riverdale, MD 20737-1614
(301) 345-4237

Waste Dynamics of New England
500 Commercial St.
Manchester, NH 03101
(603) 624-1442

Associations

Associations provide access to a wealth of information and services. Detailed information about non-profit associations and organizations can be found in the *Encyclopedia of Associations* (available at most libraries).

Aluminum Manufacturers Association
900 19th St., NW, Suite 300
Washington, DC 20006
(202) 862-5100

Alternatives to Waste Disposal

Aluminum Recyclers (Smelters) Association
1000 16th St., NW, Suite 603
Washington, DC 20036
(202) 785-0951

American Iron and Steel Institute
1101 17th St., NW, 13th Fl.
Washington, DC 20036
(202) 452-7100

American Paper Institute
260 Madison Ave.
New York, NY 10016
(800) 878-8878

Aseptic Packaging Council
P.O. Box 25565
Washington, DC 20036
(800) 277-8088

Asphalt Rubber Producers Group
3336 N. 32nd St., Suite 106
Phoenix, AZ 85018
(602) 955-1141

Association of Foam Packaging Recyclers (AFPR)
1025 Connecticut Ave., NW, Suite 515
Washington, DC 20036
(800) 944-8448

Association of Petroleum Re-Refiners
P.O. Box 427
Buffalo, NY 14202
(716) 855-2212

Association of State and Territorial Solid Waste Management Officials
444 N. Capitol St., NW, Suite 388
Washington, DC 20001
(202) 624-5828

Automotive Dismantlers and Recyclers Association
10400 Eaton Place
Fairfax, VA
(703) 385-1001

Center for Rural Waste Management
TVA, WT 8D-K
400 W. Summit Hill Dr.
Knoxville, TN 37902
(800) 856-6729

Coalition of Northeastern Governors
400 N. Capitol St., NW
Washington, Dc 20001
(202) 624-8450

Compost Council
601 Pennsylvania Ave., NW, Suite 900
Washington, DC 20004
(202) 638-0182

Council for Solid Waste Solutions
1275 K St., NW
Washington, DC 20005
(800)243-5790

Council on Plastic and Packaging in the Environment
1275 K St., SW, Suite 900
Washington, DC 20005
(202) 331-0099

Environmental Defense Fund
257 Park Ave., S.
New York, NY 10010
(212) 505-2100

Foodservice and Packaging Institute
1025 Connecticut St., NW, Suite 513
Washington, DC 20036
(202) 822-6420

Glass Packaging Institute
1801 K St., NW, Suite 1005-L
Washington, DC 20006
(202) 887-4850

Governmental Refuse Collection and Disposal Association
8750 Georgia Ave., Suite 123
Silver Spring, MD 20910
(301) 585-2898

Institute for Local Self Reliance
1627 K St., NW
Washington, DC 20006
(202) 232-4180

Institute of Scrap Recycling Industries
1627 K St., NW
Washington, DC 20006
(202) 466-4050

Keep American Beautiful
Mill River Plaza
9 W. Broad St
Stamford, CT 06902
(203) 323-8987

Lead Industries, Inc.
295 Madison Ave.
New York, NY 10017
(212) 578-4750

Local Government Commission
909 12th St., Suite 205
Sacramento, CA 95814
(916) 448-1198

National Association for Plastic Container Recovery
4828 Parkway Plaza Blvd., Suite 260
Charlotte, NC 28217
(704) 357-3250

National Association of Counties
440 First St., NW
Washington, DC 20001
(202) 393-6226

National Association of Chemical Recyclers
1875 Connecticut Ave., NW, Suite 1200
Washington, DC 20009
(202) 986-8150

National Association of Demolition Contractors
4415 W. Harrison St.
Hillside, IL 60162
(708) 449-5959

National Association of Towns and Townships
1522 K St., NW, Suite 730
Washington, Dc 20005
(202) 737-5200

National League of Cities
11301 Pennsylvania Ave., NW
Washington, DC 20004
(202) 626-3000

National Oil Recyclers Association
805 15th St., NW, Suite 900
Washington, DC 20005
(202) 962-3000

National Recycling Coalition
1101 30th St., NW, Suite 305
Washington, DC 20007
(202) 625-6406

National Soft Drink Association
Solid Waste Management Department
1101 16th St., NW
Washington, DC 20036
(202) 463-6700

National Solid Waste Institute
10928 N. 56th St.
Tampa, FL 33617
(813) 985-3208

National Solid Waste Management Association
1730 Rhode Island Ave., NW, Suite 1000
Washington, DC 20036
(202) 659-4613

National Tire Dealers and Retreaders Association
1250 I St., NW, Suite 400
Washington, DC 20005
(202) 789-2300

Partnership for Plastics Progress
1275 K St., NW, Suite 500
Washington, DC 20005
(800) 243-5790 or (202) 223-0215

Plastic Bottle Institute
1275 K St., NW, Suite 400
Washington, DC 20005
(202) 371-5244

Plastic Loose-Fill Producers' Council
P.O. Box 601
Grand Rapids, MI 4916
(800) 828-2214

Polystyrene Packaging Council
1025 Connecticut Ave., NW
Washington, DC 20036
(202) 822-6424

Rubber Manufacturers Association
1400 K St., NW, Suite 900
Washington, DC 20005
(202) 408-7781

Scrap Tire Management Council
1400 K St., NW
Washington, DC 20005
(202) 682-4842

Solid Waste Association of North America
P.O. Box 7219
Silver Spring, MD 20910
(301) 595-2898

Steel Can Recycling Institute
Foster Plaza
680 Anderson Dr.
Pittsburgh, PA 15220
(800) 876-7274

Tire Retread Information Bureau
900 Weldon Grove
Pacific Grove, CA 93950
(408) 372-1917

U.S. Conference of Mayors
1620 I St., NW, 4th Fl.
Washington, DC 20006
(202) 293-7330

Vinyl Environmental Resource Center
1 Cascade Plaza, 19th Fl.
Akron, Oh 44308
(800) 969-8469

Vinyl Institute
Wayne Interchange Plaza II
155 Route 46 W
Wayne, NJ 07470
(800) 96-VINYL or (201) 890-9299

ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL OFFICES

The Environmental Protection Agency, specifically the Office of Solid Waste Management, is a resource on topics related to solid waste management for individuals and communities. The *Catalogue of Hazardous and Solid Waste Publications* is a list of useful publications. Many of these publications are available at no charge. For more information, call the RCRA/Superfund Hotline at: 800-424-9345. Hearing impaired may call: 800-553-7672 TDD.

- **U.S. EPA Region 1**
(Connecticut, Massachusetts, Maine, Vermont, New Hampshire, Rhode Island)
J.F.K. Federal Bldg.
Boston, MA 02203
(617) 573-5720

- **U.S. EPA Region 2**
(New Jersey, New York, Puerto Rico, Virgin Islands)
26 Federal Pl.
New York, NY 10278
(212) 264-3384

- **U.S. EPA Region 3**
(Delaware, Maryland, Pennsylvania, Virginia, West Virginia, District of Columbia)
841 Chestnut St.
Philadelphia, PA 19107
(215) 597-9800

- **U.S. EPA Region 4**
(Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)
345 Courtland St., NE
Atlanta, GA 30365
(404) 347-2091

- **U.S. EPA Region 5**
(Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)
77 W. Jackson Blvd.
Chicago, IL 60604
(312) 353-2000

- **U.S. EPA Region 6**
(Arkansas, Louisiana, New Mexico, Oklahoma, Texas)
First Interstate Bank Tower
1445 Ross Ave.
Dallas, TX 75270-2733
(214) 655-6655

- **U.S. EPA Region 7**
(Iowa, Kansas, Missouri, Nebraska)
726 Minnesota Ave.
Kansas City, KS 66101
(913) 551-7050

- **U.S. EPA Region 8**
(Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)
Denver Place
999 18th St., Suite 500
Denver, CO 80202-2405
(303) 293-1662

- **U.S. EPA Region 9**
(Arizona, California, Hawaii, Nevada, American Samoa, Guam, Northern Mariana Islands, Palau, Micronesia, Marshall Islands)
75 Hawthorne St.
San Francisco, CA 94105
(415) 744-2074

- **U.S. EPA Region 10**
(Alaska, Idaho, Oregon, Washington)
1200 Sixth Ave.
Seattle, WA 98101
(206) 442-2782

STATE ENVIRONMENTAL OFFICES

Each state has programs and staff to assist in local planning. For Federal regulation information for small communities, contact the *LINKS Program*. This program is sponsored jointly by the EPA and the International Cities/Counties Management Association (ICMA) and and provides small communities information on environmental regulations. The Program is located at LINKS Program, ICMA, 777 N. Capital St, NE, Suite 500 Washington, DC 20002-4201, or call (202) 962-3539.

Alabama

Department of Environmental Management
Land Division
Solid Waste Branch
1751 Congressmen Dickinson Dr.
Montgomery, AL 36109
(205) 271-7700

Alaska

Department of Environment Conservation
Solid Waste Program
P.O. Box O
Juneau, AK 99811-1800
(907) 465-2671

Arizona

Office of Environmental Quality
7th Floor
2005 N. Central Ave.
Phoenix, AZ 85004
(602) 257-2300

Department of Environmental Conservation
4th Floor
Waste Planning Section
2005 N. Central Ave.
Phoenix, AZ 85004
(602) 257-2372

Arkansas

Department of Pollution Control & Ecology
Solid Waste Division
8001 National Dr.
Little Rock, AR 72219
(501) 562-7444

California

Integrated Waste Management Board
8800 Cal Center Dr.
Sacramento, CA 95826
(916) 225-2182
(800) 642-5669-Consumer information hotline
(800) 322-SAVE-Redemption Recycling Center Hotline

Colorado

Environmental Office
4300 Cherry Creek Dr., South
Denver, CO 80222-1530
(303) 692-3300

Connecticut

Department of Environmental Protection
Waste Management Bureau
79 Elm St.
Hartford, CT 06106-5127
(203) 566-8476
(800) 842-2220

Delaware

Department of Natural Resources Environment Control
Solid Waste Management Section
Division of Air & Waste Management
P.O. Box 1401
89 Kings Hwy
Dover, DE 19903
(302) 739-3820 (Solid Waste Office)

District of Columbia

Department of Energy
Office of Recycling
Lower Level
65 K St.
Washington D.C. 20002
(202) 727-5856

Florida

Department of Environmental Regulation
Solid & Hazardous Waste Section
Twin Towers Office Building
2600 Blair Stone Rd., Rm. 350
Tallahassee, FL 32399-2400
(904) 488-0300

Clean Florida Commission
2600 Blair Stone
Tallahassee,FL 32399-0450
(904) 488-2756
(800) BAN-TRASH

Georgia

Georgia Department of Natural Resources
205 Butler St., SE, Suite 1252
Atlanta, GA 30334
(404) 656-3500

Georgia Department of Natural Resources
Solid Waste Program
4244 International Pky.
Atlanta, GA 30354
(404) 362-2692

Hawaii

Department of Health
Solid & Hazardous Waste Division
5 Waterfront Plz., Suite 250
500 Ala-Moana Blvd.
Honolulu, HI 96813
(808) 543-8227

Idaho

Idaho Department of Health and Welfare
Division of Environmental Quality
1410 N. Hilton Statehouse Mail
Boise, ID 83706-9000
(208) 334-0502

Illinois

Illinois Department of Energy and Natural Resources
Solid Waste & Renewable Resources Division
325 W. Adams St., Rm. 300
Springfield, IL 62704-1892
(217) 785-2800

Indiana

Environmental Management Department
Solid & Hazardous Waste Management Office
P.O. Box 6015
100 N. Senate Ave.
Indianapolis, IN 46206-6015
(317) 232-3210

Indiana Department of Environmental Management
Office of Pollution Prevention and Technical Assistance
100 N. Senate
P.O. Box 6015
Indianapolis, IN 46206-6015
(317) 232-8172
(800) 451-6027

Iowa

Iowa Department of Natural Resources
Waste Management Authority Division
Wallace State Office Building
900 E. Grand Ave.
Des Moines, IA 50319-0034
(515) 281-8974

Kansas

Department of Health & Environment
Solid Waste Division
Forbes Field
Building 740
Topeka, KS 66620
(913) 296-1609

Kentucky

Environmental Protection Department
Waste Management Division
Fort Boone Plz.
18 Reilly Rd.
Frankfort, KY 40601
(502) 564-6716

Louisiana

Department of Environmental Quality
Division of Solid Waste
P.O. Box 82178
Baton Rouge, LA 70884-2178
(504) 765-0645

Maine

Environmental Protection Department
Hazardous Materials & Solid Waste Control Bureau
State House Station 17
Augusta, ME 04333
(207) 287-2651

Maryland

Maryland Department of the Environment
Office of Waste Minimization and Recycling
2500 Broening Hwy.
Baltimore, MD 21224
(410) 631-3315

Massachusetts

Department of Environmental Protection
Division of Solid Waste Management
1 Winter St., 4th Floor
Boston, MA 02108
(617) 292-5960

Michigan

Department of the Natural Resources
Waste Management Division Resource Recovery Section
P.O. Box 30241
Lansing, MI 48909
(517) 335-4090

Minnesota

Office of Waste Management
1350 Energy Ln., Suite 201
St. Paul, MN 55108
(612) 649-5750

Mississippi

Pollution Control Bureau
Solid Waste Management Branch
P.O. Box 10385
Jackson, MS 39289-0385
(610) 961-5047

Missouri

Environmental Quality Division
Solid Waste Management Program
P.O. Box 176
Jefferson City, MO 65102
(314) 751-5401

Montana

Solid Waste Management
Cogswell Building, Rm. C-108
836 Front St.
Helena, MT 59620-0901
(406) 444-1430

Nebraska

Nebraska Department of Environmental Control
1200 N. St., Suite 400
Lincoln, NE 68508-8922
(402) 471-2186

Nevada

Division of Environmental Protection
Department of Conservation & Natural Resources
123 West Nye Ln., Rm. 230
Carson City, NV 89710
(702) 667-4360

New Hampshire

Waste Management Division
Department of Environmental Service
Health & Welfare Building
6 Hazen Dr.
Concord, NH 03301
(603) 271-3406

New Jersey

Department of Environment Protection
Solid Waste Management Division
CN 402
401 East State St.
Trenton, NJ 08625-0402
(609) 292-8591

New Mexico

Solid Waste Bureau Environmental Department
P.O. Box 26110
Santa Fe, NM 87502
(505) 827-2775

New York

New York Department of
Environmental Conservation
Solid Waste Management Division
50 Wolf Rd.
Albany, NY 12233-4015
(518) 457-6603

North Carolina

Environmental Protection
Solid Waste Management Division
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 715-4140

North Dakota

Division of Waste Management
Department of Health
1200 Missouri Ave.
P.O. Box 5520
Bismarck, ND 58502-5520
(701)221-5166

Ohio

Environmental Protection Agency
Box 1049, 1800 Watermark
Columbus, OH 43266-0149
(614) 644-2917

Oklahama

Environmental Quality Department
Solid Waste Management Service
Department of Health
P.O. Box 53551
Oklahoma City, OK 73152
(405) 271-7041

Oregon

Department of Environmental Quality
Waste Reduction Section
811 SW 6th Ave., 8th Floor
Portland, OR 97204
(503) 229-6165

Pennsylvania

Department of Environmental Resources
Bureau of Waste Management
Division of Waste Minimization & Planning
P.O. Box 2063
Harrisburg, PA 17105-2063
(717) 787-2480

Rhode Island

Waste Management Division
291 Promenade St.
Providence, RI 02908
(401) 277-2797

South Carolina

Environmental Quality Control
Solid & Hazardous Waste Management Bureau
2600 Bull St.
Columbia, SC 29201
(803) 734-5200

South Dakota

Department of Water & Natural Resources
Office of Waste Management Programs
523 E. Capital Ave.
Pierre, SD 57501
(605) 773-3153

Tennessee

Environmental and Conservation Department
Division of Solid Waste Management
401 Church St., 21st Floor
Nashville, TN 37248-0438
(615) 532-0780

Texas

Department of Environmental & Consumer Health
Solid Waste Bureau
1100 W. 49th St.
Austin, TX 78756
(512) 458-7271

Utah

Environmental Services Bureau
P.O. Box 16700
Salt Lake City, UT 84116-0700
(801) 538-6856

Vermont

Department of Environmental Conservation
Solid Waste Division
Laundry Bldg.
103 S. Main St.
Waterbury, VT 05671-0301
(802) 241-3444

Virginia

Environmental Quality Department
Waste Division
Natural Resources Office
203 Governors St., Suite 302
Richmond, VA 23219
(804) 762-4051

Washington

Washington State Department of Ecology
Office of Waste Management
P.O. Box 47600
Olympia, WA 98504-7600
(206) 407-7001

West Virginia

Office of Water Management
Environmental Protection Division
1356 Hansford St.
Charleston, WV 25301
(304) 558-6350

Wisconsin

Department of Natural Resources
Bureau of Solid & Hazardous Waste Management
P.O. Box 7921 Sw-3
Madison, WI 53707-7921
(608) 266-5741

Wyoming

Solid Waste Management Program
Department of Environmental Quality
Henschler Bldg., 4th Floor
122 W. 25th St.
Cheyenne, WY 82002
(307) 777-7752

FUNDING RESOURCES

Federal Funding Programs

This is a partial list of funding programs available through the U.S. Federal Government for solid waste management and related environmental programs. For more information about these and other federal financial and non-financial assistance programs for solid waste projects, consult the *Catalog of Federal Domestic Assistance*, or the *Federal Assistance Programs (FAPRS)* Database.

These federal funding programs, from the *Catalog of Federal Domestic Assistance*, are listed by the department and agency responsible for administering the program, and then, by the agency program number and the program title. Information contacts are provided for each program. For more information, contact the Rural Information Center at the National Agricultural Library to request the bibliography: *A Guide to Funding Resources*. The number for the Rural Information Center is: 800-633-7701.

ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF RESEARCH AND DEVELOPMENT

66.504 Solid Waste Disposal Research

Objectives: To support and promote the coordination of research and development in the area of collection, storage, utilization, salvage or final disposal of solid waste.

Information Contact:
EPA Regional or Local Offices, or:

For information concerning grant applications and procedures:
EPA Headquarters Office
Grants Administration Division, PM 216
Washington, DC 20460

For program information:
EPA Research Grants Staff Director
RD-675
Washington, DC 20460

ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE

66.801 Hazardous Waste Management State Program Support

Objectives: To assist State governments in the development and implementation of an authorized hazardous waste management program for the purpose of controlling the generation, transportation, treatment, storage and disposal of hazardous wastes.

Information Contact:
EPA Regional or Local Offices, or:

For information concerning preapplication coordination an application procedures, contact:
EPA Headquarters Office
Grants Administration Division, PM-216
Washington, DC 20460

For State program information on Section 3011 of RCRA, contact:
EPA OS-32
Office of Solid Waste
Washington, DC 20460

66.807 Superfund Innovative Technology Evaluation Program (SITE)

Objectives: To establish a comprehensive and coordinated Federal program of research, development and demonstration of the purpose of

promoting the development of alternative and innovative treatment technologies that can be used in response actions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) program and to provide incentives for the development and use of such technologies.

Information Contact:
EPA Regional or Local Offices, or:

Requests for assistance, contact:
EPA SITE Demonstration and Evaluation Branch
Risk Reduction Engineering Laboratory
26 W. Martin Luther King St.
Cincinnati, OH 45268

66.808 Solid Waste Management Assistance

Objectives: To promote use of integrated solid waste management systems to solve municipal solid waste generation and management problems at the local, regional and national levels.

Information Contact:
Regional or Local Office, or:

For information concerning grant applications and procedures, contact:
EPA Headquarters Office
Grants Administration Division, PM-216
Washington, DC 20460

For program information, contact:
EPA Solid Waste management Program
Office of Solid Waste OS-301
Washington, DC 20460

Private Funding Sources

This list of a few organizations that provide funding for solid waste disposal and environmental projects is provided to illustrate the variety of funding sources available. Some organizations have geographic or other restrictions when considering funding applications. For current information and details about these organizations and the many others that provide funding, check the latest foundation or corporate giving directories (such as: *The Foundation Directory* or the *Corporate Giving Directory*), or conduct an online search of funding databases.

The Ben & Jerry's Foundation
79 Weaver St.
Winooski, VT 05404
(802) 655-6215

The C.S. Fund
469 Bohemian Highway
Freestone, CA 95472
(707) 874-2942

The David and Lucile Packard Foundation
300 Second St., Suite 200
Los Altos, CA 90422
(415) 948-7658

Dow Corning Corporate Contributions Program
Midland, MI 48686-0994
(517) 496-6290

DuPont Corporation Contributions Program
DuPont and Company
8065 DuPont Bldg.
Wilmington, DE 19898

Edwin W. and Catherine M. Davis Foundation
2100 First National Bank Bldg.
St. Paul, MN 55101
(612) 228-0935

The Gap Corporate Giving Program
One Harrison St.
San Francisco, CA 94105
(415) 952-4400

The Joyce Foundation
135 S. LeSalle St., Suite 4010
Chicago, IL 60603

Sondra & Charles Gilman, Jr. Foundation Inc.
109 E. 64th St.
New York, NY 10021

Wal-Mart Foundation
702 W. Eighth St.
Bentonville, AR 72716-0671
(501) 273-6504

Waste Management Corporate Giving Program
3003 Butterfield Rd.
Oak Brook, IL 60521
(708) 572-8800

The McIntosh Foundation
215 Fifth St., Suite 100
West Palm Beach, FL 33401
(407) 832-8845

Rural Information Center Publication Series

Funding Resources

These materials represent a sampling of funding manuals, databases, and guides that are available. For additional sources, please check with a library, bookstore, or call the Rural Information Center at the National Agricultural Library for a *Guide to Funding Resources,* at 800-633-7701.

Catalog of Federal Domestic Assistance. Washington, DC: Executive Office of the President, Office of Management and Budget, and U.S. General Services Administration.

This *Catalog* provides extensive coverage of all federal domestic programs and includes listings of federal agencies by department.

Annual Register of Grant Support: A Directory of Funding Sources, 1993. 26th ed. New Providence, NJ: R.R. Bowker.

The *Annual Register* lists more than 3,000 U.S. and foreign grant sources. It includes foundations, corporate giving programs, educational associations, federal agencies, church organizations, professional associations, and social service organizations.

Federal Assistance Programs Retrieval System (FAPRS)

FAPRS is a menu-driven system that offers complete text searching of the *Catalog of Federal Domestic Assistance.* Funding sources included on FAPRS may be obtained by calling the Rural Information Center at the National Agricultural Library.

The Chronicle of Philanthropy. Washington, DC: The Chronicle of Philanthropy.

This bi-monthly series contains news articles, a list of new grants, summaries of annual foundation reports, software reviews, and other philanthropic news.

Corporate Giving Directory. Bohdan R. Romaniuk, ed. Washington, DC: The Taft Group.

Comprehensive profiles of more than 600 major corporate foundations and corporate charitable giving programs are given. Customized versions are available on diskette and magnetic tape.

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OCLC	NAL's symbol AGL need only be entered once, but it must be the **last** entry.

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AG University/NAL ILLRQ 231 1/10/95 NEED BY: 2/15/95

Interlibrary Loan Department
Agriculture University Library
Heartland, IA 56789

Dr. Smith Faculty Ag School

Canadian Journal of Soil Science 1988 v 68(1): 17-27
DeJong, R. Comparison of two soil-water models under semi-arid growing conditions

Ver: AGRICOLA Remarks: Not available at AU or in region.
NAL CA: 56.8 C162 Auth: C. Johnson CCL Maxcost: $15.00

Ariel IP = 111.222.333.444.555 Or Fax To 123-456-7890

TELEFACSIMILE - 301-504-5675. NAL accepts ILL requests via telefacsimile. Requests should be created on standard ILL forms and then faxed to NAL. NAL fills requests via FAX as an alternative to postal delivery at no additional cost. If you want articles delivered via fax, include your fax number on your request. NAL will send up to 30 pages per article via fax. If the article length exceeds 30 pages NAL will ship the material via postal service. All requests are processed within our normal timeframes (no RUSH service).

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3. Provide authorizing official's name (request will be rejected if not included).
4. Include statement of copyright compliance (if applicable) & willingness to pay NAL charges.

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